

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, A.I. [Koptseu, A.I.]

Lithology of Quaternary sediments in the Disna region of  
Vitebsk Province. Vestsii AN BSSR. Ser. fiz.-tekhn. nav. no. 4;  
85-94 '62. (MIRA 13:4)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KLUBOV, V.A.; KOPTEV, A.P.

Apparatus for the transformation of electric logging diagrams.  
Razved.i prom.geofiz. no.10:44-47 '54. (MIRA 13:2)  
(Oil well logging. Electric)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, A.P.

Thermophysical properties of the snow cover. Probl.Arkt.i Antarkt.  
no.5:59-61 '60. (MIRA 14:4)

(Snow--Thermal properties)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOPTEV, A.P.

Methods for actinometric studies from a airplane in the Arctic.  
Trudy AANII 239:134-138 '62. (MIRA 16:8)  
(Arctic regions--Actinometry)  
(Arctic regions--Aeronautics in meteorology)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, A.P.

Albedo of the snow and ice cover of the sea. Probl.Arkt.i Antarkt.  
no.15:25-36 '64. (MIRA 17:4)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOPTEV, A.P.

Albedo of clouds, water, and the snow and ice surface.  
Trudy AANII 229:167-174 '61. (MIRA 14:8)  
(Albedo)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, A.P.; PYATNENKOV, B.A.

Absorption and penetration of solar radiation into snow and ice  
in the Arctic. Probl. Arkt. i Antarkt. no.10:71-76 '62.  
(MIRA 16:2)  
(Arctic regions—Solar radiation)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, A.P.; VOSKRESENSKIY, A.I.

Radiation properties of clouds. Trudy AANII 239:39-47 '62.  
(MIRA 16:8)

(Arctic regions--Clouds)  
(Arctic regions--Solar radiation)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOROLEV, Yu.A., inzh.; KOPTEV, B.G., inzh.; ZCLOTAREVA, A.S., irzh

Condensate outlets for steam-can dryers. Tekst, prom. 25 no.10:  
69-70 O '65. (MIRA 18:10)

1. Sotrudnik Nauchno-issledovatel'skogo eksperimental'no-konstruktorskogo mashinostroitel'nogo instituta.

*Koptev, F.S.*

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000824520003-

USSR / Farm Animals. Honeybee.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54857.

Author : Koptev, F. S., Tyunin, F. A.

Inst : Not given.

Title : On the Ways of the Multiplication of the Bee Families.

Orig Pub: Pchelovodstvo, 1957, No 10, 35-41.

Abstract: The article contains a discussion on the problems of the biological integrity of the bee family, on the strengthening of the weak families, on the transmission of heredity through the royal jelly, and on the different processes of the multiplication of bees.

40235

S/169/62/000/007/094/149  
D228/D307

3.5110

AUTHOR: Koptev, A. P.

TITLE: Albedo of clouds, water, and snow-ice surfaces (according to the data of the "Flying Observatory")

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 21, abstract 7B121 (Tr. Arkt. i Antarkt. n.-i. in-ta, 229, 1961, 167-174)

TEXT: The author examines the preliminary results of aircraft measurements of the albedo of clouds and snow in different Arctic regions at heights of 10 - 3100 m. An albedometer and a Yanishevskiy pyranometer were employed for the measurements. The absorption and the transmission of radiation by a cloud in relation to its thickness were determined together with the albedo of different cloud types. It is pointed out that the albedo of a rather thin cloud depends on the nature of the underlying surface. If the cloud was situated over ice, its albedo increased by two-fold in comparison with one above water. Data are cited, too, about the dependences

Card 1/2

40245

S/169/62/000/007/123/149  
D228/D307

12.2200

AUTHOR: Koptev, A. P.

TITLE: Thermophysical characteristics of the Arctic's snow  
coverPERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 64, ab-  
stract 7V374 (Probl. Arktiki i Antarktiki, no. 9, L.,  
Morsk. transport, 1961, 50-58)

TEXT: Three forms for the dependence of the snow's thermal conductivity on the density -- parabolic, semilogarithmic, and linear -- were derived by a number of authors as a result of numerous investigations. Research conducted in the Arctic allowed the difference in the thermal conductivity of a compacted and a freshly-drifted snow cover to be exposed. As a function of the density (0.20 - 0.50), the thermal conductivity of compacted snow has the following form:  $\lambda \times 10^3 = 1.75\rho + 2\rho^4$  cgs, where  $\rho$  is the density. The change in the thermal conductivity of freshly-drifted snow in

Card 1/2

KUPIN, B.S.; PETROV, A.A.; KOPTEV, D.A.

Conjugated systems. Part 158: Hydration of some enynes and dienyne  
with allyl radicals. Zhur. ob. khim. 32 no. 6: 1758-1761 Je '62.  
(MIRA 15:6)

1. Leningradskiy tekhnologicheskiy institut im. Leningradskogo Soveta.  
(Hydrocarbons) (Unsaturated compounds) (Hydration)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

K. P. PIW, D. V., aspirant; BUCHERUK, V. V., kand. tekhn. inzh. [added]

Retimating the hydraulic resistance of a dust separator with  
reverse taper. Vod. i san. tekhn. no.8t2-12 Ag 164  
(NIIQ. No.1)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

6(4)

06280  
SOV/107-59-6-44/50

AUTHOR: Koptev, G.

TITLE: A Transistorized Superregenerative Receiver

PERIODICAL: Radio, 1959, Nr 6, p 52 (USSR)

ABSTRACT: The circuit diagram of a superregenerative receiver is shown in Figure 1. Two transistors, P403 and P6A, are used. FBS battery elements are used as power sources. The receiver may be assembled on a pertinax plate of 30 x 21 mm, which is placed in a plastic cylinder of 21 mm diameter and 36 mm length. Tests showed that the sound of the first TV channel on 56 Mc may be received. High-ohm headphones (2 x 2.2 kilo-ohms) are required. There are 1 circuit diagram, 3 diagrams and 1 Soviet reference.

Card 1/1

KOPTEV, G.I.

Heat stabilized cathode follower using resistances with increased  
input impedance. Elektrosviaz' 16 no.12:33-36 D '62.

(MIRA 16:1)

(Cathode followers)

KOPTEV, G.P.; SORKIN, M.M.

Methods for a continuous denitration of sulfuric acid. Koks i khim.  
no.11:40-42 '60. (MIRA 13:11)

1. Bagleyevskiy koksokhimicheskiy zavod.  
(Coke-oven gas) (Sulfuric acid) (Denitration)

KOPTEV, G.P.

Structural defects of saturators in operation and their effect on the quality of ammonium sulfate. Koks i khim. no. 3:38-41 '61.  
(MIRA 14:4)

1. Bagleyskiy koksokhimicheskiy zavod.  
(Ammonium sulfate)

ORLOV, M.L.; TUMARKIN, L.A.; YEPIMAKHOV, N.M.; SORKIN, M.M.; KOPTEV, G.P.

Improving the process of the primary separation of crude benzol.  
Koks i khim. no.3:36-41 '64. (MIRA 17:4)

1. Ukrainskiy uglekhimicheskiy institut (for Orlov, Tumarkin).
2. Bagleyskiy koksokhimicheskiy zavod (for Yepimakhov, Sorkin, Koptev).

CHEN, N.G.; KOPTEV, G.P.; BEREZNITSKIY, S.G.; SORKIN, M.M.; BOYARSKAYA, R.R.

Preventing corrosion and scale formation in primary gas coolers.  
Koks i khim. no.9:49-53 '62. (MIRA 16:10)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz (for Chen).
2. Bagleyiskiy koksokhimicheskiy zavod (for Koptev, Bereznitskiy, Sorkin, Boyarskaya).

(Cooling towers)  
(Corrosion and anticorrosives)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, G.P.; SORKIN, M.M.

Improvements in the design of saturators. Koks i khim. no.10:  
37-40 '63. (MIRA 16:11)

1. Bagleyevskiy koksokhimicheskiy zavod.

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CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, G.S.

Buckwheat

Sowing period of buckwheat Sel. 1 sem. /No. 4, 1952 19

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

1. KOPTEV. G. S.
2. USSR (600)
4. Buckwheat
7. Sowing buckwheat in wide rows. Destr. sel'khoz. no. 5, 1952.
  
9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

1. SMIRENSKIY, N. V.: KOPTEV, G. S.
2. USSR (600)
4. Fertilization of Plants
7. Artificial supplementary pollination of plants.  
Dost. sel'khoz. No. 6, 1952.
  
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. KOPTEV, G.S.
2. USSR (600)
4. Field Crops
7. Posters about best crop varieties., Sel.i sem., 19, No.11, 1952
  
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. FROLOV, P. V.; KOPTEV, G. S.
2. USSR (600)
4. Sesame
7. Growing sesame under irrigation. Sov. agron. 11, No. 4, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. KOPTEV, G. S.
2. USSR 600
4. Pisarev, Viktor Evgrafovich, 1882
7. Great scientist and plant breeder, Sel. i sem., 20, No. 1, 1953.
  
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

S/051/61/011/006/004/012  
E032/E114

AUTHORS: Tatevskiy, M., Koptev, G.S., and Mal'tsev, A.A.

TITLE: Vibrational spectra of the  $B_2O_3$  and  $B_2S_3$  molecules

PERIODICAL: Optika i spektroskopiya, v.11, no.6, 1961, 724-729

TEXT: In a previous paper (A.A. Mal'tsev, V.N. Matveyev, V.M. Tatevskiy, DAN SSSR, v.137, 123, 1961) it was shown that the frequency of the antisymmetric BO vibration is about  $900\text{ cm}^{-1}$ , while D. White, D.E. Mann, P.N. Walsh and A. Sommer (Ref.3; J. Chem. Phys., v.32, 481, 1960) reported the figure of  $1302\text{ cm}^{-1}$ . The aim of the present work was to explore the possible reasons for this discrepancy. The authors describe a calculation of the vibrational spectra of the  $B_2^{10}O_3$  and  $B_2^{11}O_3$  molecules, and have recalculated the spectra of  $B_2^{10}B^{11}O_3$ ,  $B_2^{10}S_3$  and  $B_2^{11}S_3$ . The calculated frequencies of bands in the vibrational spectra of  $B_2^{10}O_3$ ,  $B_2^{10}B^{11}O_3$ ,  $B_2^{11}O_3$ ,  $B_2^{10}S_3$  and  $B_2^{11}S_3$  are shown in the following table:

Card 1/ 3

Vibrational spectra of the  $B_2O_3$  andS/051/61/011/006/004/012  
E032/E114

Vibration	Symmetry	$B^{10}O_3$	$B^{10}B^{11}O_3$	$B^{11}O_3$	$B^{10}S_2$	$B^{11}S_2$
$\nu_1$	$A_1$	2084	2022	2015	1359	1306
$\nu_2$		844	829	815	465	409
$\nu_3$		755	754	749	399	396
$\nu_4$		161	161	160	66	64
$\nu_5$	$B_1$	2097	2091	2029	1364	1311
$\nu_6$		938	936	933	462	461
$\nu_7$		682	668	638	347	333
$\nu_8$	$A_2$	778	768	755	374	369
$\nu_9$	$B_2$	700	685	671	371	356

The calculations show that the bands 1302 and 742  $m^{-1}$  which are observed in the infrared emission spectrum of vapors over boric anhydride are due to the liquid phase and not the vapor.

Card 2/3

Vibrational spectra of the  $B_2O_3$  and  $B_2S_3$  molecules. S/051/61/011/006/004/012  
E032/E114

molecule. The  $993\text{ cm}^{-1}$  band in the spectrum of boron sulphide is due to the spectrum of liquid  $B_2S_3$ . It is suggested that in order to obtain more accurate values for the force constant and in order to increase the accuracy of the vibrational frequencies, more accurate spectroscopic studies are necessary in the region of  $900\text{ cm}^{-1}$  where it is expected that there are bands due to antisymmetric BO vibrations.

There are 1 table and 17 references: 5 Soviet-bloc and 12 non-Soviet-bloc. The four most recent English language references read as follows:

Ref. 3: D. White, D.E. Mann, P.N. Walsh, A. Sommer, J.Chem.Phys., v.32, 481, 1960. ✓

Ref. 11: A. Sommer, P.N. Walsh, D. White, J.Chem.Phys., v.33, 296, 1960.

Ref. 12: C.W.F.T. Pistorius, J.Chem.Phys., v.31, 1454, 1959.

Ref. 16: J.L. Parsons, M.E. Milberg, J.Amer.Ceram.Soc., v.43, 326, 1960.

SUBMITTED: January 2, 1961

Card 3/3

ACCESSION NR: AP3001600

S/0189/63/000/003/0010/0013

AUTHORS: Kotov, Yu. I.; Koptev, G. S.; Tatevskiy, V. M.

TITLE: Vibrational frequency of hydrazine molecule  $N_2H_4$ 

SOURCE: Moscow. Universitet. Vestnik. Seriya 2. Khimiya, no. 3, 1963, 10-13

TOPIC TAGS: vibrational frequency, hydrazine molecule, force constant, potential energy

ABSTRACT: The vibrational frequencies of the hydrazine molecule for rotation angles  $\theta = 0^\circ, 60^\circ, 90^\circ, 120^\circ$ , and  $180^\circ$  have been calculated. The force constants in the potential energy term are borrowed from the data of  $NH_3$ ,  $CH_3NH_2$  and  $C_2H_6$ . Computations were made on the digital computer "Strela." For frequency curves  $\nu_i$  ( $i = 1, 2, 3, 5, 8, 9$ , and  $10$ ) the change in angle of rotation had a very small effect (maximum value  $\sim 30 \text{ cm}^{-1}$ ). Frequencies  $\nu_4$  and  $\nu_{11}$ , on the other hand, changed by a value of  $350 \text{ cm}^{-1}$  from  $\theta = 0^\circ$  to  $180^\circ$ . The magnitudes of  $\nu_6$  and  $\nu_{12}$  for  $\theta = 90^\circ$  are shown to correspond respectively to  $831$  and  $859 \text{ cm}^{-1}$ . Orig. art. has: 2 formulas, 1 figure, and 1 table.

Card 1/6

KOTOV, Yu.I.; KOPTEV, G.S.; PENTIN, Yu.A.; TATEVSKIY, V.M.

Infrared absorption spectrum of deuterated hydrazine vapors.  
Opt. i spektr. 15 no.4:564-565 O '63. (MIRA 16:11)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, G.S.; PANCHENKO, Yu.N.; TYULIN, V.I.; TATEVSKIY, V.M.

Calculating the frequency and vibration pattern of two isotopic  
forms of the molecules of 1,3-butadiene  $C_4H_6$  and  $C_4D_6$ . Opt.  
(MIRA 18:8)  
i spektr. 19 no.2:194-197 Ag '65.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOPTEV, I.

Konno-pochtovaia stantsiia Vorontsovskaya. Vorontsov mail horse station. (Vestnik sviazi Pochta, 1946, no. 1, p. 19).

DLC: HE7.V44

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

KOPTEV, I.I.

Recent data on the age of the Torgashino limestones (Krasnoyarsk area). Izv. vys. ucheb. zav.; geol. i razv. 4 no.4:3-8 Ar '61.  
(MIRA ;4:6)

1. Tomskiy politekhnicheskiy institut imeni S.M.Kirova.  
(Torgashino region--Limestone)

KOPTEV, I.I.

An interesting trilobite from the lower Cambrian in the Krasnoyarsk  
ridge. Izv. TPI 90:31-34 '58.  
(MIRA 12:2)

1. Predstavleno professorom doktorom Raduginym K.V.  
(Sayan Mountains--Trilobites)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, I.I.

Age of the "Bazaikha" Cambrian fauna complex. Trudy SNIGGIMS  
no.24:35-37 '62. (MIRA 16:10)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, I.I.,

Relationship between Kolha-Torgashino series of the Cambrian in  
Krasnoyarsk Territory. Trudy SNIIGIM no.24:92-96 '62.  
(MIRA 16:10)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

ДРЕНС, И. В. и др.  
ТЛКН, Т. А. & КОЗЫРЬ, И. В.

"Overhead and Cable Communications Lines and Their Protection,"  
published by the State Communications and Radio Literature, Moscow, 1940.  
312 pp.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOPTEV, I. V.

Lineino-kabel'nye sooruzheniya sviazi. [Linear cable communication equipment].  
Dopushcheno v kachestve uchebnika dlja tekhnikumov sviazi. Moskva, Gos. izd-vo  
lit-ry po voprosam sviazi i radio, 1949. 399 p. illus. DLC: TK5481.K6

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress  
Reference Department, Washington, 1952, Unclassified.

~~KOPTEV, Ivan Vasil'yevich; KRASNOYARTSEV, Ye. A.,~~ otvetstvennyy redaktor;  
~~OGARKOV, P.F.,~~ redaktor; SOKOLOVA, R.Ya., tekhnicheskii redaktor

[A theory of overhead lines of communication] Teoriia vozdushnykh  
linii sviazi. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio,  
1956. 281 p.  
(MLRA 9:11)

(Telephone) (Telegraph)

KONDRASHOV, Aleksandr Vasil'yevich; KOPTEV, V.I., inzh., retsenzent; VE-LICHKIN, Ye.A., inzh., retsenzent; KRISHTAL', L.I., red.; BOBROVA, Ye.N., tekhn. red.

[Economy in the use of materials in construction for transportation]  
Ekonomiia materialov v transportnom stroitel'stve. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961.  
187 p. (Building materials) (Transportation) (MIRA 14:8)

KOPTEV, K., kandidat ekonomicheskikh nauk.

Build mills at large procurement points. Muk.-elev.prom. 20 no.10:  
10-11 O '54.  
(MLRA 7:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov  
yego pererabotki.  
(Flour mills)

KOPTEV, K., kandidat ekonomiceskikh nauk.

Problems in organizing the cleaning of grain. Muk.-elev.prom. 23  
no.1:7-9 Ja '57.  
(MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov  
ego pererabotki.

(Grain--Cleaning)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, K.

CHUKHAR'KO, Z.; KOPTEV, K.; SHEKHTMAN, Kh.; SHEFER, G.; BELYAKOVA, N.

For an effective network of permanent grain procurement stations.  
Muk.-elev.prom.23 no.8:18-21 Ag '57. (MIRA 10:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov  
yego pererabotki.

(Grain trade)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOPTEV, K., kand. ekon. nauk.

The feed industry abroad. Makh.-elev. prom. 24 no. 4:30-31 Ap '58.  
(Flour and feed trade) (MIRA 11:5)

KOPTEV, K., kand.ekon.nauk

The flour industry abroad. Muk.-elev. prom. 24 no. 9:29-31  
S '58. (MIRA 11:10)  
(Flour and feed trade)

25(5)

SOV/118-59-2-14/26

AUTHOR: Koptev, K.N., Candidate of Technical Sciences

TITLE: The Mechanization of Loading and Unloading Operations at Grain Delivery Centers (Mekhanizatsiya pogruzochno-razgruzochnykh rabot na khlebopriyemnykh punktakh)

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959, Nr 2, pp 42-44 (USSR)

ABSTRACT: The building of mechanized granaries with belt conveyers and automatic feeders started in 1924. At present the extent of mechanized loading and unloading operations has reached 82.7%, but mechanization at grain delivery centers is still insufficient. The trucks delivering grain are not equipped with dumpers or tippers, and the unloading is carried out mostly by hand shovels or mobile conveyers. The trucks are not being utilized efficiently. Only 28% of the working time is used for transportation, the remaining time being wasted on loading and unloading work. New fully-mechanized granaries with a capacity of 50,000 and 100,000 tons

Card 1/2

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7  
SOV/118-59-2-14/26

The Mechanization of Loading and Unloading Operations at Grain Delivery Centers

are under construction in Western Siberia and Northern Kazakhstan. They will be equipped with 4 bucket conveyers able to handle 175 tons per hour, remote control, automatic blocking. There will be flare, radio and telephone communication, and remote temperature control in the silos. A total of 900 grain drying and cleaning towers must be constructed, all equipped with stationary conveyers. In 1957, in grain delivery centers, 48,000 belt conveyers, 21,000 self-feeders, more than 3,000 dismountable conveyers and almost 5,000 truck-mounted lifting devices were working. Without giving any details, the author mentions a new self-feeder, developed by Grishin and Sushkov, Engineers, and special loading conveyers. There are 2 photos and 1 diagram.

Card 2/2

KOPTEV, K., kand. ekon. nauk

Mobile feed mills. Muk.-elev. prom. 25 no. 4:30-31 Ap '59.  
(MIRA 13:1)  
(Feed mills)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, K.N., inzh.

Accuracy of the construction of the curve of heat utilization in a  
diesel unit. Energomashinostroenie 7 no.12:10-16 D '61.

(MIRA 14:12)

(Diesel engines--Testing)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

ACC NR: AR5025467

SOURCE CODE: UR/0273/65/000/008/0018/0018

10

B

AUTHOR: Koptev, K. N.TITLE: An indicator piezoelectric transmitter calibrated on a running engine

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 8.39.146

REF SOURCE: Tr. Leningr. Korablenstroit. in-ta, vyp. 44, 1964, 29-32

TOPIC TAGS: detection equipment, piezoelectric transducer, internal combustion engine, test facility

ABSTRACT: The Engine Laboratory of the Leningrad Shipbuilding Institute designed and tested a transducer with a relatively high natural oscillation frequency (in the range of 30c.). It permits making a dynamic calibration of the indicator immediately before making a recording of the diagram. The calibrating is carried out with compressed air, the pressure of which is controlled by a precise manometer. The scheme of the transmitter and of the indicator calibration is given by means of a piezocarquarz transmitter. An indication by means of transmitters permits the obtaining of single-cycle graphs thoroughly adequate for qualitative analysis at reduced requirements for the linearity and stability of the transmitter and amplifiers to the properties of the indicator input circuit insulation, the dynamic characteristics of the oscillograph and the effect of the operational temperature conditions.

SUB CODE: 09/ SUBM DATE: none  
Card 1/1 U.T.

UDC:621.432.018.86

BELYAYEVA, Z.; BUDARIN, V.; VASHEVTSYVA, Ye.; KOPTEV, M.; KOROLEV, S.;  
MESHCHERYAKOV, V.; SEMIN, S.; KONAKOV, D., otv.red.; ROCHKO, V.,  
red.; SOSKIN, A., red.

[Political economy; a manual of visual aids] Politicheskaja  
ekonomika; nagliadnoe posobie. Otvetstvennyi red. D.Konakov.  
Moskva, Gos.isd-vo polit.lit-ry, 1959. 159 p. (MIRA 13:3)  
(Economic history) (Audio-visual aids)

KOPTEV, M. A.

Afforestation

Obligation of the expedition of the Academy of Sciences of the U.S.S.R. to afforestation.  
Les i step' 5, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

17

L 24211-65. EWT(u)/EPP(e)/EPP(n)-2/EPR Pr-4/Pn-4/Pn-5 DM

ACCESSION NR: AP5001266

S/0059/64/017/006/0448/0452

42

AUTHOR: Sinev, N. M.; Krasin, A. K.; Bychkov, I. F.; Blokhin, O. I.;  
Broder, D. L.; Gabrusev, V. N.; Dudnikov, Yu. V.; Zhil'tsov, V. A.; Koptev,  
M. A.; Kotov, A. P.; Lantsov, M. N.; Lisochkin, G. A.; Merzlikin, G. A.;  
Morozov, I. G.; Komarov, A. Ya. (deceased); Orokhov, Yu. I.; Sergeyev, Yu. A.;  
Slyusarev, P. N.; Ushakov, G. N.; Fedorov, N. V.; Chernyy, V. Ya.; Shmelev,  
V. M.

TITLE: Small-size atomic electric power installation TES-3

19

SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 448-452

TOPIC TAGS: small atomic power installation, portable atomic power installation, nuclear reactor, electric power generation/TES-3 reactor

ABSTRACT: The paper is a summary of the SSSR report #310 at the Third International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It describes a movable small-size atomic electric power installation with the water cooled and moderated TES-3 reactor (under 10,000 kw). It consists of four

Cord 1/2

L 21211-35  
ACCESSION NR: AP5001268

blocks each of which was assembled at the manufacturing plant, and which are placed on four self-propelled flatcars on caterpillar tracks. No housing is required for the installation; the only local preparation needed is the radiation protection. The results with a demonstration model show a satisfactory agreement between the theoretically expected and actually obtained parameters of the installation. Orig. art. has: 4 figures

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NR REF SOV: 000

OTHER: 000

Card 2/2

SINEV, N.M.; KRASIN, A.K.; BYCHKOV, I.F.; BLOKHIN, O.I.; BRODER, D.L.;  
GABRUSEV, V.N.; DUNIKOV, Yu.V.; ZHIL'TSOV, V.A.; KOPTEV, M.A.;  
KOMAROV, A. Ya. [deceased]; KOTOV, A.P.; LANTSOV, M.N.;  
LISOCHKIN, G.A.; MERZLIKIN, G.A.; MOROZOV, I.G.; OREKHOV, Yu.I.;  
SERGEYEV, Yu.A.; SLYUSAREV, P.N.; USHAKOV, G.N.; FEDOROV, N.V.;  
CHERNYY V.Ya.; SHMEL', V.M.

TES-3 small-scale atomic power plant. Atom. energ. 17 no.6:  
448 D '64 (MIRA 18:1)

KOPTEV, Mikhail Mikhaylovich; VORONINA, N. V., red.

[Some problems in business accounting during the large-scale building of communism] Nekotorye voprosy khoziaistvennogo rascheta v period rasvernutogo stroitel'stva kommunizma. Moskva, Izd-vo VPSh i AON pri TsK KPSS, 1961. 60 p.

(MIRA 14:6)

(Finance)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, M., <sup>M.</sup>kand.ekonom.nauk, dotsent

Budget for communist construction. Starsh.-serzh. no.2:10-11  
F '62. (MIRA 15:4)  
(Budget) (United States--War--Economic aspects)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

DZURGUDAKOV, V. N., KAPTEV, M. S.

Mining 48,100 tons of coal from the longwall in 31 workdays  
is a new record for the N.N. Usov's brigade. Ugol' 40  
no. 8:18-20 Ag '65. (MIRA 18:8)

1. Normativno-fazodovate) tskaya stantsiya pri shakhte  
"Kokarayash" (for Dzurgudakov). 2. Shakhta "Zenkovskiy  
uklony" (for Kaptev).

GNILOVSKIY, V.G., red.; KOZKO, D.I., red.; KOPTEV, N.N., red.;  
KUZNETSOV, P.M., red.; MIKHAYLOV, M.V., red.; NESIS,  
Ye.I., red.; RALL, Yu.M., red.; RAFALOVICH, M.B., red.;  
STRAKHOV, S.M., red.; STEBLYANKO, I.V., tekhn. red.

[In this book are given the answers to the questions: 1. Are there intelligent beings on other planets? 2. What significance has the Kuban-Kalaus Irrigation and Water-Supply System for Stavropol? 3. What is travertine? How is it formed and for what purposes is it used?] V etoi knige dany otvety na voprosy: 1. Est' li razumnye sushchestva na drugikh planetakh? 2. Kakoe znachenie imet dlia Stavropolia Kuban'-Kalausskaiia obvodnitel'no-odosjetel'naia sistema? 3. Chto takoe travertin, kak on obrazuetse i v chem ego poleznost'? Stavropol', Stavropol'skoe knizhnoe izd-vo, 1960. 32 p. (Plurality of worlds) (Kuban--Water supply) (Travertine) (MIRA 16:11)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, N.N., inzh.; ZUBKOV, V.F., inzh.

Nomographic determination of the moments of inertia for bodies  
of revolution. Vest. mashinostr. 45 no.7;40 Jl '65.  
(MIRA 18:10)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

MALYSHEV, A.A., kand. sel'khoz. nauk; KOPTEV, N.N., red.; STEBLYANKO,  
T.V., tekhn. red.

'Teberda] Stavropol', Stavropol'skoe knishnoe izd-vo, 1961.  
15 p.

(Teberda--Views)

(MIRA 15:4)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

KOPTEV, O.; MASLOV, G.; MALINOVSKIY, Yu.

Integrating dosage measuring devices. Radio no. 441-42 Ap '62,  
(MIRA 15:4)  
(Radioactive substances--Measurement)

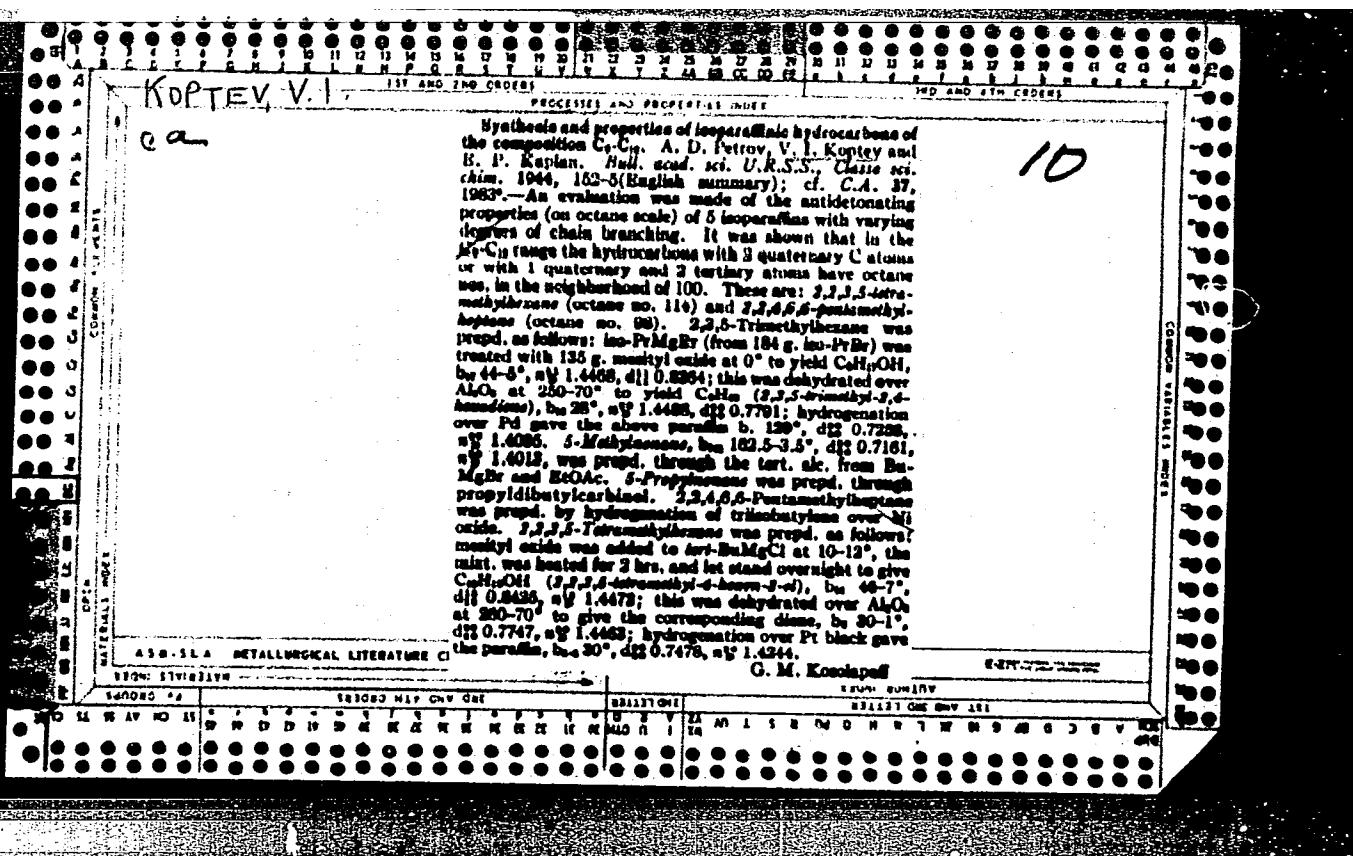
APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

BAYEV, G.; KOPTEV, V.

Is the organization of correspondence courses satisfactory?  
Mias. ind. SSSR 31 no.4:31-32 '60. (MIRA 14:7)

1. Krasnodarskiy sakhsvetklotrest (for Bayev). 2. Sverdlovskiy  
myasoptitsekombinat, Orlovskaya oblast' (for Koptev).  
(Correspondence schools and courses)



53700

<sup>28042</sup>  
S/081/61/000/015/139/139  
B142/B110AUTHOR: Koptev, V.I.

TITLE: Studies in the field of the synthesis of high-molecular organic silicon compounds

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 15, 1961, 656, abstract 15P44 (Tr. po khimii i khim. tekhnol. (Gor'kiy), no. 3, 1960, 477 - 481)

TEXT: Several high-molecular chloro silanes on the basis of  $\alpha$ -chloro methyl naphthalene have been synthesized for the first time with the aid of the Grignard reaction. The following compounds were obtained:  $\alpha$ -C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>SiCl<sub>3</sub>;  $\alpha$ -C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>Si(CH<sub>3</sub>)<sub>3</sub>;  $\alpha$ -C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>Si(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>;  $\alpha$ -C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>Si(OC<sub>2</sub>H<sub>5</sub>)<sub>3</sub>;  $\alpha$ -C<sub>10</sub>H<sub>7</sub>CH<sub>2</sub>Si(n-C<sub>4</sub>H<sub>9</sub>)<sub>3</sub>;  $\alpha$ -C<sub>10</sub>H<sub>7</sub>C<sub>6</sub>H<sub>5</sub>SiCl<sub>2</sub>; and  $\alpha$ -C<sub>10</sub>H<sub>7</sub>C<sub>6</sub>H<sub>5</sub>Si(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>. Their physicochemical properties were described. A method simpler than that described by Grummit and A. Book [J. Am.

Card 1/2

KOPTEV, V.I.

Edges of shelterbelts of the Mariupol' Experimental Station  
for Land Improvement through Afforestation. Bot. zhur. 48  
no.5:732-735 My '63. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut lesnogo  
khozyaystva i agrolesamelioratsii, Khar'kov.

KOPTEV, V.I.

Railroad transportation of the U.S.S.R. in the sixth five-year  
plen. Tekh.zhel.dor. 15 no.1:1-4 Ja-Y '56. (MLRA 9:5)

1. Zamestitel' nachal'nika Planovo-ekonomicheskogo upravleniya  
Ministerstva putey soobshcheniya.  
(Railroads)

KOPTEV, V.I.

Urgent problems of housing construction. Zhel. der. transp. 39 no. 3:  
35-39 Mr '57.  
(MLRA 10:4)

1. Zamestitel' nachal'nika Planevo-ekonomicheskogo upravleniya  
Ministerstva putey soobshcheniya.  
(Railroads--Buildings and structures) (Housing)

KOPTEV, V.I.

Solving economic problems of transportation in Czechoslovakia.  
Zhel. dor. transp. 40 no. 2:83-86 F '58. (MIRA 11:3)

1. Zamestitel' uchchal'nika pianovo-ekonomicheskogo upravleniya  
Ministerstva putey soobshcheniya.  
(Czechoslovakia--Railroads--Finance)

AVSYUK, Yu.N., mladshiy nauchnyy sotrudnik; KOPTEV, V.I., mladshiy nauchnyy  
sotrudnik

Results of magnetic observations along the route Pionerskaya -  
Pole of Relative Inaccessibility. Inform. biul. Sov. antark.  
eksp. no. 24:42-45 '60. (MIRA 14:5)  
(Antarctic regions—Magnetic anomalies)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

~~BOGDANOV, O.G., mladshiy nauchnyy sotrudnik; AVSYUK, Yu.N., mladshiy nauchnyy sotrudnik; KOPTEV, V.I., mladshiy nauchnyy sotrudnik~~

Results of determining the thickness of the ice sheet in eastern Antarctica. Inform.biul.Sov.antark.eksp. no.11:9-13 '59.  
(MIRA 13:5)

1. Tret'ya kontinental'naya ekspeditsiya.  
(Antarctic regions--Geology, Structural)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

KOPTEV, V.I., inzh.

Seismoacoustic study of the monolithic properties of hard and semi-hard rocks. Trudy Gidroproyekta 3:299-303 '60. (MIRA 13:7)

1. Otdel geologicheskikh izyskanii Vsesoyuznogo proyektno-izyskateльskogo i nauchno-issledovatel'skogo instituta "Gidroproyekt" imeni S.Ya.Zhuka.  
(Seismometry) (Soil mechanics)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

SOROKHTIN, O.G., AVSYUK, Yu.N., KOPTEV, V.I.

Structure of the central sector of eastern Antarctica  
according to the data of seismic and gravimetric obser-  
vations. Mezhdunar. geofiz. god no.8:35-41 '60.

(MIRA 13:6)

(Antarctica--Geology, Structural)  
(Prospecting--Geophysical methods)

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7"

S/169/61/000/009/005/056  
D228/D304

AUTHOR: Koptev, V. I.

TITLE: Application of seismo-acoustics for studying the monolithic nature of sheared and semi-sheared rocks

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 9, 1961, 8,  
abstract 9A71 (Tr. Vses. proyektno-izyskat. i nauchno-  
issled. in-ta Gidroproyekt, sb. 3, 1960, 299-303)

TEXT: The possibility is considered of applying sonic and ultrasonic waves (5 - 30 kc/s) for determining the jointing of rocks by means of two methods of investigation: (1) The shadow method, when the rock section between two holes is "X-rayed"; and (2) the reflection method, when the emitter and receiver are located in one hole and the waves reflected from heterogeneities are investigated. The use of an impulse ultrasonic apparatus (the seismoscope) is suggested in these investigations. Experimental investigations of the joints in blocks of sheared rocks (to 1.5 m) were carried out under laboratory conditions primarily by means of the

Card 1/2

Application of...

S/169/61/000/009/005/056  
D228/D304

impulse seismoscope in order to clarify the perspicacity of the proposed methods. These studies confirm the possibility of detecting joints by the indicated methods. [Abstracter's note: Complete translation.]

Card 2/2

S/169/61/000/008/039/053  
A006/A101

AUTHORS: Avsyuk, Yu. N., Koptev, V. I.

TITLE: Results of magnetic observations over the route from Pionerskaya to the Pole of relative inaccessibility

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 32, abstract 8G227 ("Inform. byul. Sov. antarkt. ekspeditsii", 1960, no. 24, 42-45)

TEXT: From October to December 1958, the authors carried out magnetic measurements together with gravimetric and seismographic investigations. Results of measuring  $\Delta Z$  at 39 points of the 1,700-km long route are presented in the form of graphs of the values observed and corrected with allowance for the field gradient of homogeneous magnetization. Magnetic profiles are compared with graphs of gravity variation ( $\Delta g$ ) and profiles of ice and primary rock surfaces. An evident correlation of  $\Delta Z$  graphs with other graphs has not been obtained. Magnetic anomalies of local and regional nature were discovered. There are indications as to the connection of changes in  $\Delta Z$  with the world magnetic anomaly in the south in part of the Indian Ocean. ✓

V. Orlov

[Abstracter's note: Complete translation]

Card 1/1

ACC NR: AT6032734

SOURCE CODE: UR/0000/66/000/000/0084/0094

AUTHOR: Koptev, V. I.

ORG: none

TITLE: Ultrasonic multichannel logging with clamp sonde in engineering geological prospecting

SOURCE: AN SSSR. Institut fiziki Zemli. Geoakustika; ispol'zovaniye zvuka i ul'tra-zvuka v seismologii, seysmorazvedke i gornom dele (Geoacoustics; the use of sound and ultrasound in seismology, seismic prospecting, and mining). Moscow, Izd-vo Nauka, 1966, 84-94

TOPIC TAGS: borehole logging, ultrasonic ~~multichannel logging~~, equipment, geoacoustics, prospecting, ~~radiosonde~~, piezoelectric transducer, geologic instrument, ultrasonic inspection

ABSTRACT: A unit for detailed investigation of the elastic properties of cross sections of relatively shallow (100—200 m) boreholes is described. The apparatus consists of a borehole sonde and surface components. The sonde contains 7 similar piezoelectric transducers fastened at 20-cm intervals to the body of the tube. Rochelle salt crystals are generally used for the transducers. These are 20 x 20 x 20 mm in size with a natural frequency of 70 kc. They are located in hermetically sealed brass housings with conical fittings to ensure point contact with the rocks. The transducers are connected by an RK-19 cable to the ground switch which controls

Card 1/2

ACC NR: AT6032734

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000824520003-7

the emitters and receivers. The elastic pulses are generated and recorded by a modified IKL-5 unit. During the measurements the sonde is held to the borehole wall by a hinged clamping device. Interpretation of the oscillograms yields the longitudinal wave velocities and R wave velocities recorded in the part of the record considered to represent the surface wave. The Young's modulus and Poisson's ratio are determined on the basis of velocity measurements and rock density data. The R-wave attenuation depends greatly on the degree of rock jointing. The quantitative parameters of jointing are computed on the basis of interpretation of velocity measurements in the boreholes and the samples. Orig. art. has: 6 figures.

SUB CODE: 08,04,09 / SUBM DATE: 28Mar66 / ORIG REF: 008 / OTH REF: 006 /

Card 2/2

ACC NR: A16020455

(N)

SOURCE CODE: UR/3152/65/000/009/0035/0046

AUTHOR: Koptev, V. I.

ORG: none

TITLE: Comparison of ultrasonic and seismic logging data on sandy-clayey outcroppings

SOURCE: Razvedochnaya geofizika, no. 9, 1965, 35-46

TOPIC TAGS: seismic prospecting, seismologic instrument

ABSTRACT: The instrumentation in the study consisted of a probe cartridge, a hand-cranked commutator, an oscilloscope and a photographic camera. This ultrasonic method reveals thin layers of ground with odd velocities. The recorded velocities are generally greater than those generated by explosives. This difference is variable and is between 10 and 13% if the test is carried out immediately after completion of the bore-hole. The difference becomes negligible 24 hr later. The method is promising and if refined could eventually replace explosives which are less efficient. Orig. art. has: 5 figures.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 007

Card 1/1

KOPTEV, V.S.

Crossing geographically distant bee strains. Agrobiologiya  
no.3:438-443 My-Je '65.

(MIRA 18:11)

1. Novosibirskaya opytnaya stantsiya plodovo-yagodnykh  
kul'tur imeni I.V.Michurina.

KOPTEV, V. S.

586

Polucheniye novykh semeyskikh podgotovka pchel k  
glavnому medosboru. kemerovo, kn. izd., 1954. 60 s. s ill.  
20 sm. (kemerov. obl. upr. sel'skogo khozyaystva, Kemerov.  
obl. kontora pchelovedstva). 2.200 eka. B. b.-54-54296/ p  
638.1 sr (57.15)

SO: Knizhnaya Letopis, Vol. 1, 1955

KOPTEV, V.S.  
USSR/Farm Animals - Honey Bee

Q-7

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26259

Author : Koptev, V.S.  
Inst : Not Given  
Title : Laying Workers and the Swarming of Bee Families (Pchely-trutovki i rovnye pchelinykh semej)

Orig Pub : Pchelovodstvo, 1957, No 6, 31-32

Abstract : The study carried out at the Kemerovo Agricultural Experimental Station demonstrated that the greatest number of laying workers appears in colonies the queens of which are either inefficient or infertile. However, laying workers may also exist under certain conditions in the normal strong colonies during the whole summer until the end of the main honey-crop, independently of the preparation of families for swarming.

Card : 1/1

KOPTEV, V.V., slesar'-instrumental'shchik, laureat Stalinskoy premii;  
VOROB'YEV, S.A., kandidat tekhnicheskikh nauk, redaktor; DONSKOY,  
Ya., redaktor; LADNYI, Yu., tekhnicheskiy redaktor.

[Innovations in the work of machinist and tool maker] Novoe v rabote  
slesaria-instrumental'shchika. Pod red. S.A. Vorob'eva. Khar'kov,  
Khar'kovskoe knishno-gazetnoe izd-vo, 1953. 55 p. (MLRA 9:4)

[Microfilm]

1. Khar'kovskiy elektromekhanicheskiy zavod imeni Stalina (for Koptev).  
(Machine tools)

KOITEV, V. V.

KOITEV, V. V. — "Study of Loads on the Undercarriage of the DT-54 Tractor."\*(Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min Higher Education USSR, Leningrad Agricultural Inst, Leningrad, 1955

SO: Knizhnaya Letopis' No. 31, 30 July 1955.

\*For the Degree of Candidate in Technical Sciences.

KOPTEV, V.V. (Kokmolsk)

Where not even a bush was growing. Put' i put. khos, no. 1:10-11  
Ja '57. (MLRA 10:4)

1. Machal'nik otdela zashchitnykh lesosashdeniy slushby puti.  
(Kazakhstan--Railroads--Snow protection and removal)  
(Windbreaks, shelterbelts, etc.)

STATENIN, A.G. (g. Alma-Ata); KOPTEV, V.V. (g. Alma-Ata)

Reinforced concrete fences for snow protection. Put' i put,khoz.  
5 no.8:23 Ag '61. (MIRA 14:10)  
(Railroads—Snow protection and removal)

ZHUKOV-VEREZHNICKOV, N. N., prof.; KOP'YEV, V. Ya., dotsent

Biology and space flights. Nauka i zhizn' 29 no.9:15-20 S '62.  
(MIRA 15:10)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Zhukov-Verezhnikov).

(Space biology)

ZHUKOV-VEREZHNIKOV, N.N.; MAYSKIY, I.N.; YAZDOVSKIY, V.I.; PEKHOV, A.P.;  
RYBAKOV, N.I.; KLEMPARSKAYA, N.N.; GYURDZHIAN, A.A.; TRIBULEV,  
G.P.; NEFED'YEVA, N.P.; KAPICHNIKOV, M.M.; PODOLELOV, I.I.;  
ANTIPOV, V.V.; NOVIKOVA, I.S.; KOP'YEV, V.Ya.

Problems of space microbiology and cytology. Probl.kosm.biol.  
1:118-136 '62. (MIRA 15:12)  
(SPACE MICROBIOLOGY) (CYTOLOGY)

I-06521-67 ENT(1) GW  
ACC NR: AN7000448

UR/9009/66/000/111/0003/0003

43

B

AUTHOR: Koptev, Yu. (Scientific associate)ORG: Physics-Engineering Institute im. A. F. Ioffe (Fiziko-tehnicheskiy institut)TITLE: Most accurate measurement of temperature at the sun's center is accomplished

SOURCE: Leningradskaya pravda, 13 May 66, p. 3, col. 2-6

V2

TOPIC TAGS: solar radiation, neutrino, thermonuclear reaction, sun

ABSTRACT: The article describes a recent successful research project undertaken at the Department of Astrophysics, Leningrad Physics-Engineering Institute imeni A. F. Ioffe, Academy of Sciences USSR, under the direction of GRANT YEGOROVICH KOCHAROV, Cand. Sci., with the object of "measuring" the temperature of the sun by measuring the flux of neutrinos emitted by the sun. Utilizing the findings of the American scientist Davis, KOCHAROV, on the basis of calculations of the energy released in the course of the various thermonuclear reactions occurring on the sun, obtained for the first time in history precise data on the possible fluxes of neutrinos from the sun by means of a recording method based on the reaction between the neutrino and chlorine which leads to the formation of the radioactive isotope argon-37, which can be recorded on a counter. On this basis KOCHAROV established that the temperature at the center of the sun is

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C923 1145

L 06521-67  
ACC NR: AN7000448

less than 18 million degrees centigrade but more than eight million. What is more, the effective temperature calculated according to the point model was successfully related to the real temperature at the center of this luminary. This makes it possible to greatly simplify the calculations for any sun-type star: it is sufficient to perform the comparatively easy calculations of the point model of the star in order to immediately determine the temperature at its center as well. In addition, KOCHAROV's team has succeeded in developing an improved counter for "trapping" neutrino fluxes so as to eliminate interference from extraneous radiation. Only two models of these counters exist at present: one is at the Physics-Engineering Institute and the other is kept by DAVIS in the United States. [JPRS: 36,775]

SUB CODE: 03, 20 / SUBM DATE: none

Card 2/2 LS

KHANTINGTON G. [Huntington, H.B.]; KOPTEV, Yu.I. [translator]; NIKANOROV,  
S.P. [translator]

Elastic constants of crystals. Part 1. Usp.fiz.nauk 74 no.2;  
303-352 Je '61. (MIRA 14:6)  
(Crystals)

L 17622-66 EWT(1)/EWT(m)/T/EWP(t) IJP(c) JD/JG/CG

ACC NR: AP6006850

SOURCE CODE: UR/0181/66/008/002/0569/0570

AUTHOR: Tsvirkunskiy, S. V.; Koptev, Yu. I.; Stepanov, A. V.

ORG: Physicotechnical Institute im. A. F. Ioffe, Leningrad (Fiziko-tehnicheskiy institut)

TITLE: Growing germanium crystal platelets

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 569-570

TOPIC TAGS: germanium, single crystal growth, germanium single crystal, semiconductor, single crystal, oriented crystallization

ABSTRACT: The capillary process of crystal formation was applied to grow thin (0.1-3 mm) single crystal germanium platelets or strips. Single crystal strips 15-45 mm wide and 80-90 mm long with narrow edges 1.25-3.5 mm thick were grown from Ge melt by pulling the seed which was a tungsten or germanium single crystal thin platelet inserted into grooves of two parallel tungsten rods as shown in Fig. 1. The tungsten rods acted as a vehicle for the melt and as a frame for the liquid film, because of the meltability of tungsten. The liquid film was formed on the seed owing to the forces of surface tension. Crystallization at the melt-seed interface occurred under given [unspecified] temperature conditions, ~ 1.5 mm above the upper

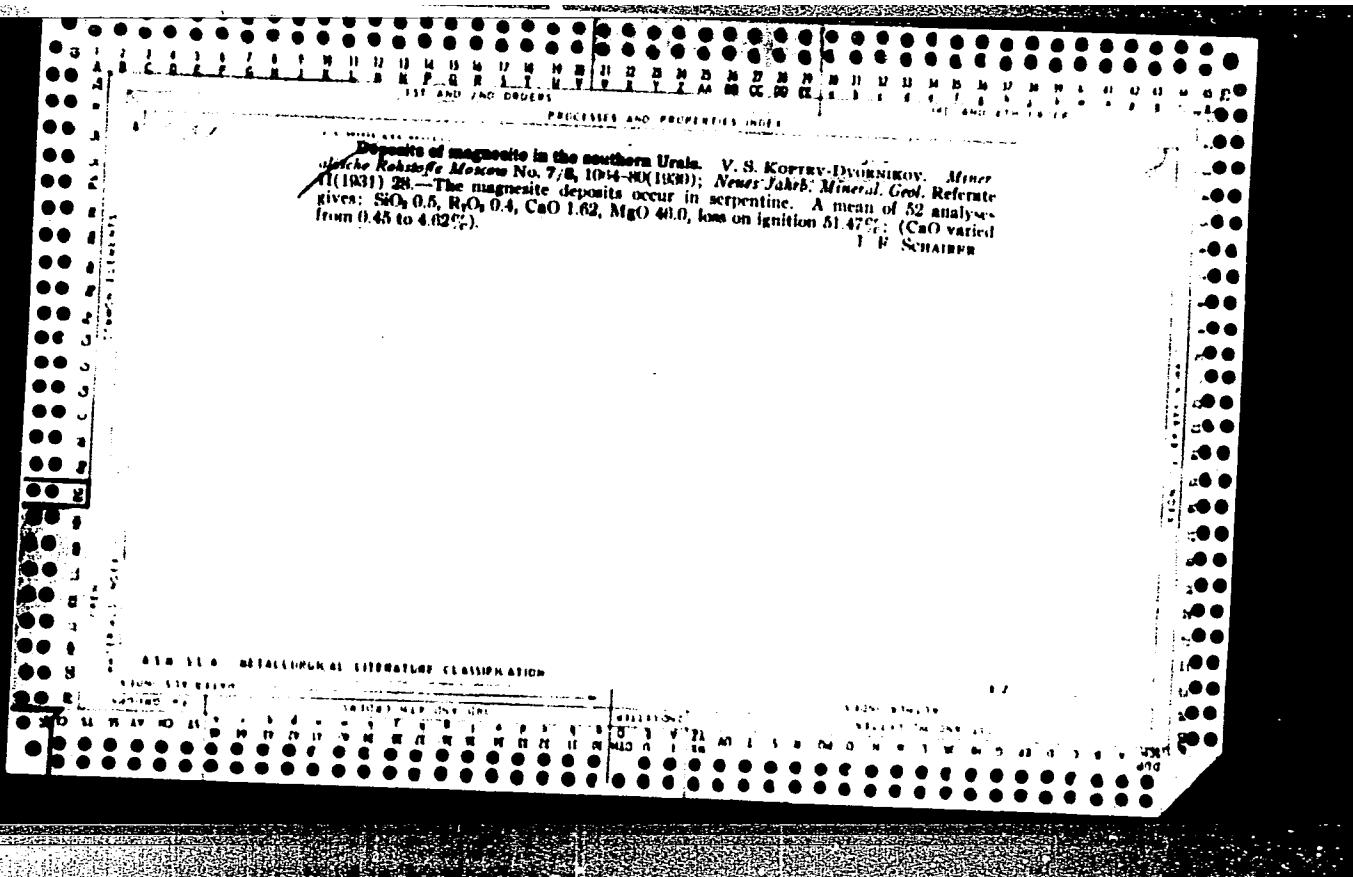
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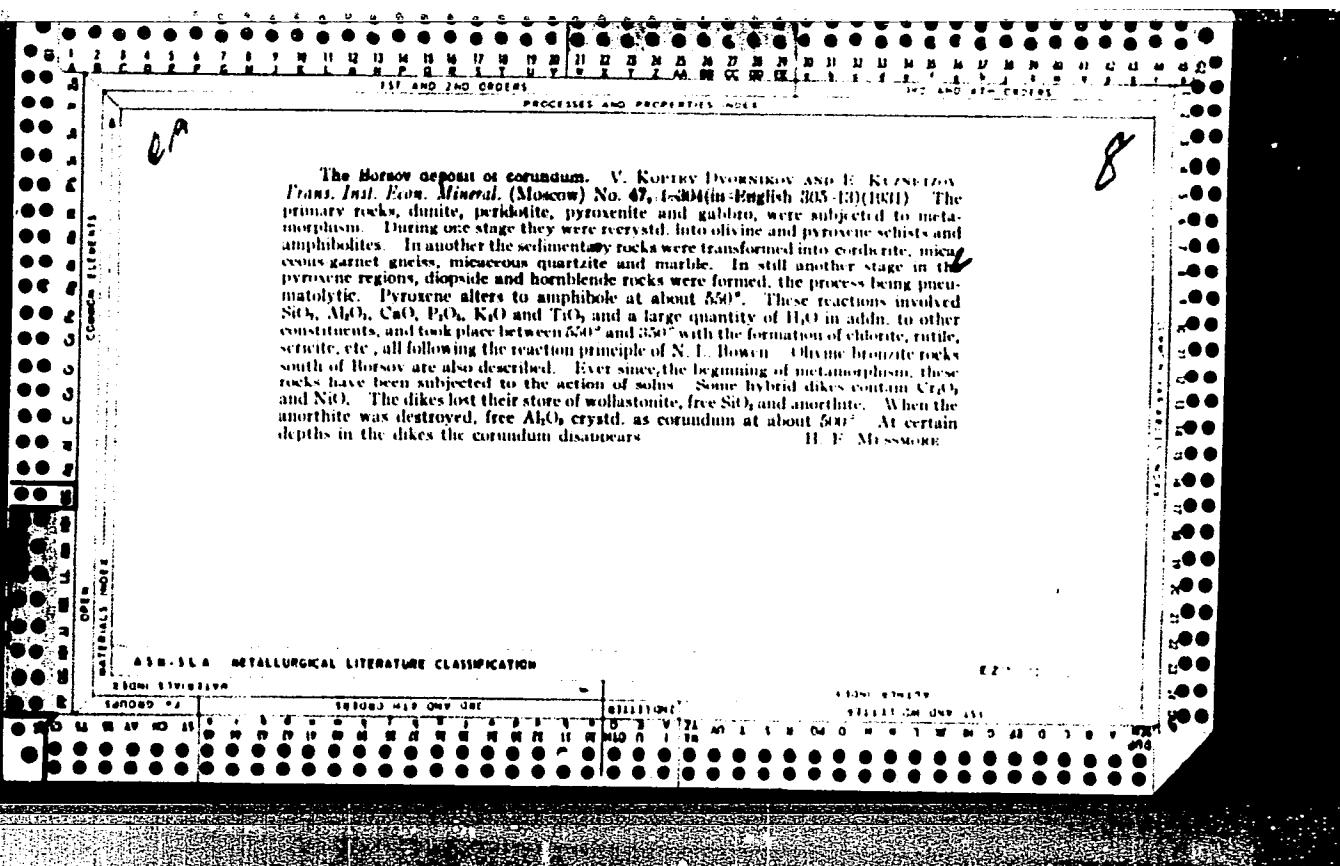
CA

PROCESSING AND PROPERTIES OF

Experiment of a commercial evaluation of Ural garnet deposits. A. A. MAMUROV  
etal. B. N. KURTOV, D. N. KURTOV, and B. P. PUL'KOV. *Mineraiia Suri's Tsvetnoe Met.*  
4, issue 87 (1920). The Garnet deposits of Ivanil'sk are capable of furnishing uniform  
minerals of high quality in quantities sufficient for establishing a large con. plant. The  
mineral is dominantly almandite. The grains are isometric and contain a large no. of  
sharp angles. The final product has a violet color, highly valued by the trade. The  
crystals are embedded mainly in quartz and mica, the difference in sp. gr. being sufficient  
to permit an easy enrichment of the ore. The garnet content is up to 24%.  
M. A. JERNAKOFF

APPENDIX - METALLURGICAL LITERATURE CLASSIFICATION





KOPTEV-DVORNIKOV, V.S.

Borovoye Massif granites. (In: Akademia nauk SSSR. Voprosy petrografii i mineralogii. Moskva, 1953. Vol. 1, p.505-513) (MLRA 7:4)  
(Kokchetav District--Granite) (Granite--Kokchetav District)

KOPTEV-DVORNIKOV, V.S.

Phenomena of hybridization exemplified by various granitic intrusions of  
the Paleozoic in central Kazakhstan. Trudy Inst. geol. nauk. 149:112-155 '53.  
(Kazakhstan--Granite) (Granite--Kazakhstan)

CHETVERIKOV, Sergey Dmitrievich; KOPTEV-DVORNIKOV, V.S., redaktor;  
GODOVIKOVA, L.A., redaktor izdatel'stva; KRYNOCHKINA, K.V.,  
tekhnicheskiy redaktor

[Manual on petrochemical calculations of chemical analyses of ores  
and determination of their chemical types] Rukovodstvo k petro-  
khimicheskim pereschetam khimicheskikh analisov gornykh prid i  
opredeleniiu ikh khimicheskikh tipov. Moskva, Gos. nauchno-tekhn.  
izd-vo lit-ry po geol. i okhrane nedor, 1956. 245 p. (MIRA 9:8)  
(Mineralogy, Determinative)

KOPTEV-DVORNIKOV, V. S.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,  
15-1957-7-9260  
p 67-68 (USSR)

AUTHOR: Koptev-Dvornikov, V. S., Polkvoi, O. S.

TITLE: The Intrusive Granitoid Paleozoic Complex of Bet-Pak-  
Dala (Intruzivnyye kompleksy granitoidov paleozoya  
Bet-Pak-Daly)

PERIODICAL: Sov. geologiya, vol 51, 1956, pp 27-44

ABSTRACT: The granitoid intrusions of Bet-Pak-Dala belong to the  
Caledonian and Hercynian tectonic-magmatic stages. No  
granitoid intrusions that can be proved to be of  
greater age have been discovered, although it is pos-  
sible that some masses of granodiorite and quartz  
diorite, severely deformed cataastically and con-  
taining traces of hybrid features, may belong to  
the Salairskiy tectonic-magmatic stage. Three intru-  
sive complexes in Bet-Pak-Dala belong to the Caledo-  
nian stage. The Silurian intrusive complex is com-  
posed of granodiorite masses confined to the Dzhalair-  
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15-1957-7-9260

**The Intrusive Granitoid Paleozoic Complex of Bet-Pak-Dala (Cont.)**

Naymanskiy tectonic zone; the distinctive features of these Silurian granodiorites are their widespread assimilation, cataclasis and mylonitization, gneissic structure, and meager dike rocks. Contact formations are hornblende, rarely pyroxene, hornfels; skarn rocks are only slightly developed because of the paucity of carbonate beds in the host rocks. The first Devonian intrusive complex comprises a variety of rocks, depending on the degree of hybridization: granodiorites, quartz diorites, and adamellites. Contact rocks are biotite hornfelses. The dike facies of this complex is only slightly developed (granite porphyry, diorite porphyrite, and gabbro porphyrite). Post-magmatic mineralization gave rise to isolated low-temperature quartz veins. The second Devonian intrusive complex consists of massive hornblende-biotite granites and, rarely, granodiorite. The rocks are commonly leucocratic, uniform in composition, and relatively free of hybridization. The contact aureoles of these granites are narrow and are made up of biotite hornfelses. Several later granites

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15-1957-7-9260

**The Intrusive Granitoid Paleozoic Complex of Bet-Pak-Dala (Cont.)**

of wide occurrence are similar in composition to the principal phase, but they transect the main masses. Dike rocks of the first stage are granite, aplite, and--rarely--pegmatite. High-temperature quartz veins containing molybdenum formed somewhat later in the first stage. Dike rocks of the second stage are granite, apli-porphyry (!), granodiorite porphyry, syenite porphyry, diorite porphyrite, and gabbro-diorite. A gradual change with time, from acidic to basic, occurred in the dike rocks of the second stage. Two intrusive complexes of different ages belong to the Hercynian tectonic-magmatic stage. The early Hercynian intrusions are massive leucocratic biotite granites, weakly porphyritic. In the near-contact and apical parts of the intrusions, hybridization has produced local quartz-syenitic and granodioritic rocks. Secondary intrusions are widespread and similar in composition to rocks of the principal phase. Dike rocks of the first stage comprise two or three generations of granite. High-temperature mineralization of rare metals occurred in quartz and in quartz-feldspar veins containing greisen. A change in composition, from

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**The Intrusive Granitoid Paleozoic Complex of Bet-Pak-Dala** 15-1957-7-9260  
acidic to basic, occurred in dikes of the second stage (grani-  
te porphyry, diorite porphyrite, and gabbro-diabase). The  
late Hercynian intrusive complex consists of massive leucocra-  
tic two-mica or muscovite granites. Secondary intrusions are  
characterized by the replacement of potash feldspars by ama-  
zonite. Dike rocks of the first stage are aplites and gran-  
ites; dike rocks of the second stage are gabbro-diabases. In  
the summary, data are cited which attest to the importance of  
differentiation associated with gaseous transfer; to the ir-  
regular distribution of volatile constituents, depending on  
the environment obtaining at the contact surface of the in-  
trusion; and to the significance of these factors in produc-  
ing hybridization, skarn rocks, and rare-metal deposits in  
quartz veins.

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O. V. Bryzgalin